

KUSTAREV, G.T.

Spindle belting made from capron. Tekst. prom. 23 no.6:40-44  
Je '63. (MIRA 16:7)

1. Nachal'nik Upravleniya legkoy promyshlennosti Soveta  
narodnogo khozyaystva SSSR.  
(Nylon) (Belts and belting)

POPOV, V.V.; KUSTAREV, V.M. [deceased]

Formation of the cornea from skin subjected to the action of heat.  
Biul.eksp.biol.i med. 54 no.7:88-90 Jl '62. (MIRA 15:11)

1. Iz kafedry emtriologii (zav. - prof. V.V.Popov) Moskovskogo  
gosudarstvennogo universiteta imeni Lomonosova. Predstavlena  
deystvitel'nym chlenom AMN SSSR N.N.Zhukovym, Verezhnilovym.  
(SKIN GRAFTING) (CORNEA)

KITAYGORODSKAYA, O.D., professor; KUSTAREVA, K.S., nauchnyy sotrudnik;  
TALANOVA, I.K., nauchnyy sotrudnik

Ultraviolet rays in complex therapy of acute rheumatism in children.  
Pediatriia no.5:44-50 S-0 '54. (MLRA 7:12)

1. Iz detskogo otdeleniya (sav. prof. O.D.Kitaygorodskaya) Nauchno-  
issledovatel'skogo instituta fizioterapii (dir. prof. A.N.Obrosov)  
(RHEUMATIC FEVER, in infant and child,  
ther., ultraviolet rays)  
(ULTRAVIOLET RAYS, therapeutic use,  
rheum. fever in child.)

KUSTAREVA, K.S.

Changes in the electrocardiogram of rheumatic children treated by a combination of ultraviolet rays and drug therapy. Vop. okh. mat. i det. 3 no.3:40-45 Jl-Ag '58 (MIRA 11:8)

1. Iz gosudarstvennogo nauchno-issledovatel'skogo instituta fizioterapii (dir. - prof. A.N. Obrosov) i Instituta pediatrii AMN SSSR (dir. prof. O.D. Sokolova-Ponomareva).  
(RHEUMATIC FEVER)  
(ELECTROCARDIOGRAPHY)  
(ULTRAVIOLET RAYS--THERAPEUTIC USE)

KUSTAREVA, K. S.

Cand Med Sci - (diss) "Use of erythemic doses of ultraviolet irradiation in the complete treatment of children ill with rheumatism." Moscow, 1961. 16 pp; (Ministry of Public Health USSR, Central Inst for Advanced Training of Physicians); number of copies not given; price not given; (KL, 6-61 sup, 238)

KUSTAREVA, N.V., aspirant

Isolation in growing seed potatoes freed from the I virus.  
Zashch. rast. ot vred. i bol. 7 no.10:52-53 O '62.

(MIRA 16:6)

1. Institut kartofel'nogo khozyaystva, Moskovskaya obl.  
(Seed potatoes)  
(Virus diseases of plants)

ISAMUKHAMEDOV, I.M.; KUSTARNIKOVA, A.A.

Age of granitoid intrusions along the right bank of the Angren River.  
Izv. AN Uz. SSR. Ser. geol. no.2:5-13 '57. (MIRA 11:9)  
(Angren Valley-Granite) (Geological time)

*1959*  
KUSTAFTIKOVA, A. A.: Master Geolog-Mineralog Sci (diss) -- "The petrology of  
the Akcha intrusive". Tashkent, 1959. 12 pp (Acad Sci Uzbek SSR, Inst of  
Geol), 150 copies (KL, No 5, 1959, 145)

KUSTARNIKOVA, A.A.

Deposits of ornamental stones on the right bank of the Angren  
River. Uzb. geol. zhur. no.1:71-75 '58. (MIRA 13:2)  
(Angren Valley--Building stones)

KUSTARNIKOVA, A.A.

Vein rocks in the Akchinskiy massif. Uzb. geol. zhur. no. 4:45-54  
'58. (MIRA 13:2)

1. Institut geologii AN Uzbeckoy SSR.  
(Angren Valley--Petrology)

KUSTARNIKOVA, A.A.

Concerning L.M. Volobikova's article "Accessory minerals from  
granitoids in the southwestern part of the Chatkal Range." Uzb.  
geol. zhur. no.5:85-87 '58. (MIRA 12:2)

1. Institut geologii AN UzSSR.  
(Chatkal Range--Granite)  
(Volobikova, I.M.)

ISAMUKHAMEDOV, I. M.; KUSTARNIKOVA, A.A.

Caledonian intrusives on the right bank of the Angren River.  
Uzb. geol. zhur. no.1;3-10 '61. (MIRA 14:3)

1. Institute geologii AN USSR.  
(Angren Valley—blocks, Igneous)

KHAMRABAYEV, I.Kh.; BATALOV, A.B.; KUSTARNIKOVA A.

Development of petrology, metallogeny, and research in  
ore deposits. Uzb. geol. zhur. 6 no.6:33-39 '62. (MIRA 16:2)  
(Uzbekistan—Geology)

KHAMRABAYEV, I.Kh., doktor geol.-miner. nauk; KALZHAILOV, F.Sh.;  
GOR'KOVY, O.P.; SALOV, P.I.; KOZYREV, V.V.; PETROV, V.M.;  
USMANOV, F.A.; ISAMUKHAMEDOV, I.M., doktor geol.-min. nauk;  
KUSTAUNIKOVA, A.A.; BORISOV, O.M.; RAKHMATULLAYEV, Kh.R.;  
MUSAYEV, A.M.; SVIRIDENKO, A.F.; SULTAN-UIZ-DAG; GOLOVIN,  
Ye.M., kand. geol.-miner. nauk; VIS'NEVSKIY, Ya.S., kand.  
geol.-miner. nauk, red.; NURATDINOVA, M.R., red.; ASTAKHOV,  
A.N., red.

[Petrography of Uzbekistan] Petrografiia Uzbekistana.  
Tashkent, Izd-vo "Nauka" UzSSR. Book 1. 1964. 445 p.  
(MIRA 18:1)  
1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut geologii  
i geofiziki.

KHAMRABAYEV, I.Kh.; KUSTARNIKOVA, A.A.; SVIRIDENKO, A.F.

Petrologic and metallogenetic proof concerning the relationship  
between the Tien Shan and the Urals. Uzb. geol. zhur. 8 no.4:5-18  
'64. (VKA 18:5)

1. Institut geologii i geofiziki imeni Abdullayeva, AN UzSSR.

KUSTAROV, N.P.

Theca cell tumors of the ovary [with summary in English]. Akush.  
i gin. 33 no.3:79-81 My-Je '57. (MLRA 10:8)

1. Iz kafedry akushersstva i ginekologii Vozenno-meditsinskoy ordena  
Lenina akademii imeni S.M.Kirova  
(THECA CELL TUMORS, case reports  
(Rus))

KUSTAROV, N. P., podpolkovnik meditsinskoy sluzhby

Case history of cervical pregnancy. Akush. i gin. no. 2:101-102  
'62. (MIRA 15:6)

(PREGNANCY, EXTRA-UTERINE)

5 (2)

AUTHORS: Kustas, V. L., Lazebnaya, G. V. SOV/32-25-8-20/44

TITLE: Spectrum Analysis of Preparations of Rare Earths of the Cerium Group With Respect to Samarium

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 958 - 959 (USSR)

ABSTRACT: The article contains a description of a spectrum method for the determination of samarium in compounds of cerium, lanthanum, praseodymium, and neodymium. The graphite electrode is prepared in a 3% polystyrene solution (in benzene) before use. One drop of 0.05 - 25% test solution is placed on the tip of the electrode and evaporated at 100° (Ref 5). The following were used: spectrograph DFS-3, generator DG-1 as exciter, photographic film of type III (sensitivity 4, 5.5 units of GOST) and type II (sensitivity 16 GOST units). The standard samples were prepared from 99.8 - 99.9% oxides of the concerned elements of the rare earths. The concentration was varied in the above-mentioned interval in dependence of the samarium content. The article lists the applied pairs of lines, determination intervals of the samarium concentration for the different basic substances (Table). The

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Spectrum Analysis of Preparations of Rare Earths of the SOV/32-25-8-20/44  
Cerium Group With Respect to Samarium

relative mean error at the samarium determination in cerium is  $\pm 4.2\%$ , in lanthanum  $\pm 1.3\%$ , in neodymium  $\pm 2.5\%$ , and in praseodymium  $\pm 3.3\%$ . There are 1 table and 5 references, 2 of which are Soviet.

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5.5310

77749  
SOV/75-15-1-11/29

**AUTHORS:** Kustas, V. L., Lazebnaya, G. V.

**TITLE:** Spectral Determination of Rare Earth Admixtures in Samarium and Europium

**PERIODICAL:** Zhurnal analiticheskoy khimii, 1960, Vol 15, Nr 1, pp 57-60 (USSR)

**ABSTRACT:** Spectral determination of all rare earths and yttrium in samarium and europium oxides was studied. Determination was made in two stages: simultaneous determination of all cerium-group elements and simultaneous determination of all yttrium-group elements. A drop of the test solution is placed on the graphite electrode (previously treated with 3% solution of polystyrene in benzene) and dried at 100°. Spectral excitation was made in an alternating current (10 a) arc. Grating spectrograph DFS-3 was used. Calibration graph solutions were prepared from pure

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Spectral Determination of Rare Earth  
Admixtures in Samarium and Europium

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oxides in following concentrations: For cerium group:  
0.085, 0.033, 0.085, 0.0066, 0.0022% of La, Ce, Pr,  
Nd, Sm, and Eu; for the yttrium group: 0.111, 0.055,  
0.011, 0.0055, 0.0027, 0.00027% of Gd, Dy, Tb, Ho, Er, Tu, Lu, Yb,  
and Y. Samarium and europium were employed as the  
inner standards. The selected pairs of analytical  
lines are given in the table.

Table A. (1) base; (2) element to be determined;  
(3) analytical lines; (4) concentration used (%);  
(5) samarium; (6) europium; (7) lanthanum; (8) cerium;  
(9) praseodymium; (10) neodymium; (11) gadolinium;  
(12) terbium; (13) dysprosium; (14) holmium; (15)  
erbium; (16) ytterbium; (17) thulium; (18) lutetium;  
(19) yttrium.

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Spectral Determination of Rare Earth  
Admixtures in Samarium and Europium

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1	2	3	4
7	La 4429,9 Sm 4425,8	0,01	-4,0
8	Ce 4449,31 Sm 4442,58	0,03	-4,0
9	Pr 4408,84 Sm 4408,04	0,03	-4,0
10	Nd 4451,57 Sm 44 6,37	0,03	-4,0
6	Tu 4435,0 Sm 4433,0	0,008	-5,0
11	Gd 3302,24 Sm 3301,44	0,01	-5,0
12	Tb 3324,4 Sm 3322,7	0,01	-5,0
13	Dy 3303,58 Sm 3397,79	0,01	-5,0
14	Ho 3398,08 Sm 3397,79	0,008	-5,0
15	Er 3372,75 Sm 3372,32	0,002	-5,0
16	Yb 3289,37 Sm 3288,57	0,0002	-5,0
17	Tu 3362,61 Sm 3361,04	0,002	-5,0
18	Lu 3307,00 Sm 3307,79	0,01	-5,0
19	Y 3212,28 Sm 3214,48	0,001	-5,0
7	La 4429,0/Eu 4438,0	0,1	-4,0
8	Ce 4449,34 Eu 4446,47	0,3	-4,0
9	Pr 4408,84 Eu 4414,70	0,3	-4,0
10	Nd 4451,57 Eu 4446,47	0,3	-4,0
5	Sm 4433,8 Eu 4438,0	0,01	-4,0
6	Gd 3302,24 Eu 3357,04	0,01	-5,0
11	Tb 3324,4 Eu 3327,04	0,01	-5,0
12	Dy 3303,58 Eu 3304,03	0,01	-5,0
13	Ho 3398,08 Eu 3394,03	0,008	-5,0
14	Er 3370,75 Eu 3371,75	0,004	-5,0
15	Yb 3289,37 Eu 3288,57	0,0002	-5,0
16	Tu 3362,61 Eu 3357,04	0,002	-5,0
17	Lu 3307,07 Eu 3304,03	0,01	-5,0
18	Y 3212,28/Eu 3248,44	0,001	-5,0
19			

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Spectral Determination of Rare Earth  
Admixtures in Samarium and Europium

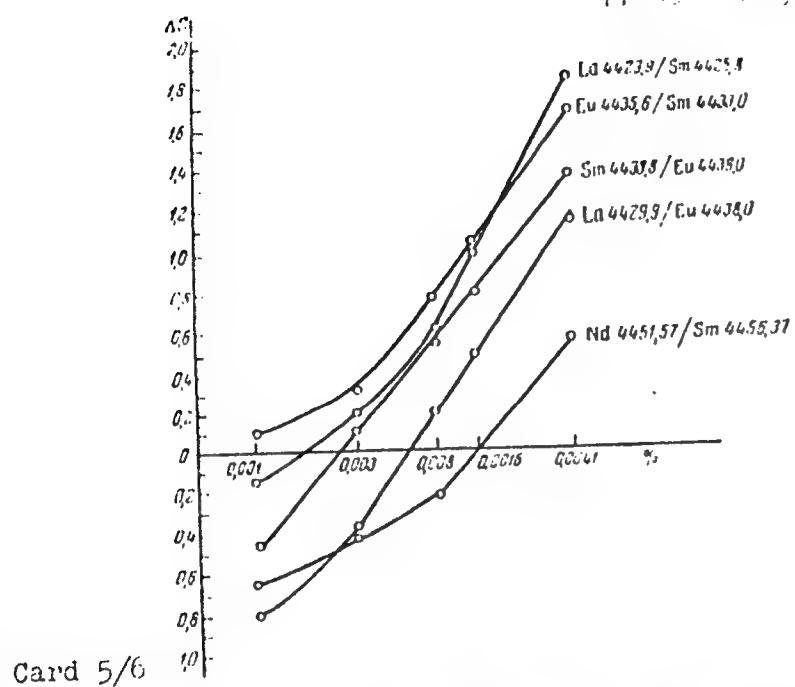
77749  
SOV/75-15-1-11/29

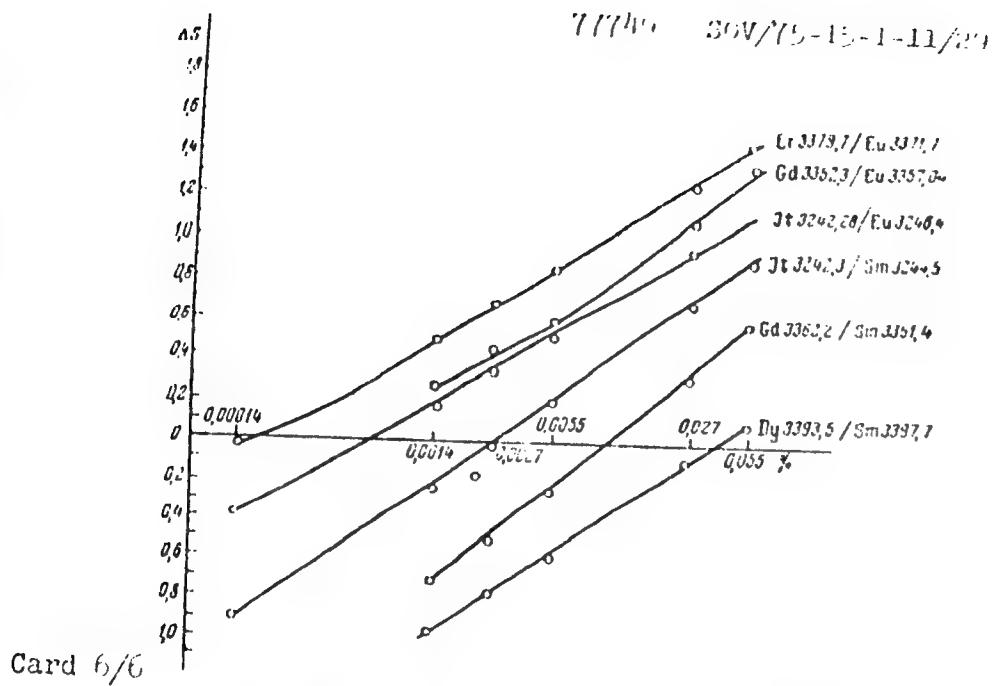
The spectrograms obtained are given in Fig. 2 and 3. It was shown that rare earths in samarium and europium can be determined by the proposed method with an accuracy of 3-5% within concentration limits shown in the table. Only a small amount (5-10 mg) of the analyzed compound is required. There is 1 table; 3 figures; and 5 references, 2 U.S., 3 Soviet. The U.S. references are: Tasstl, V. A., Wilhelm, H. A., J. Opt. Soc. America, 38, 518 (1948); Tasstl, V. A., Cook, H. D., Spectrochim acta 5, 201 (1952).

SUBMITTED: February 12, 1959

Card 4/6

7774, 301/73-15-1-11/23





LAZEBNAYA, G.V.; SHEPETA, N.G.; KUSTAS, V.L.

Flame photometric determining of potassium, cesium and rubidium when present together. Prom.khim.reak. i osobo chist.veschch. no.2:70-74 '63.  
(MIRA 17:2)

KUSTAS, V.L.; LAZEBNAYA, G.V.; ZAGORSKAYA, M.K.

Spectral determination of impurities in high purity lanthanum oxide after their concentration by the chromatographic method.  
Zhur. anal. khim. 18 no.1:99-102 Ja '63. (MIRA 16:4)

(Lanthanum oxide) (Rare earths—Spectra)

KUSTEL, A.

Dr. Bela Koros; Obituary. Ron lap '66 no.118263 N'63.

L 37062-66

ACC NR: AP6006607

(A,N)

SOURCE CODE: GE/0058/65/000/045/0008/0008

AUTHOR: Kunter, M.

85

ORG: none

B

TITLE: Guided weapons are the main standard; missile ships set new standards

SOURCE: Volksarmee, no. 45, 1965, 8, col. 1-5

TOPIC TAGS: missile type, missile transport, guided missile submarine, missile guidance, surface to surface missile, torpedo, submarine, submarine chaser, turret, rocket

ABSTRACT: The Soviet rocket destroyer "Kynda," displayed on Red Square in November 1962, has eight launching tubes which, most likely, carry surface-to-surface missiles exhibited in Moscow and estimated by the West to have a range of 600-700 km. The launching tubes are, evidently, swivel mounted so that a pair or a single tube can be raised at an angle of about 30°. A pair of launching tubes carries anti-aircraft missiles that reload automatically, as missiles in submarine chasers. The armor is supplemented by two triple torpedo launching tubes as well as by artillery in twin turrets the caliber of which is estimated by the West to be 5.7 or 7.6 cm, and by some 8.5 cm. Photos of two smaller missile-equipped speed boats appeared in

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L 37062-66

ACC NR: AP6006607

the Soviet press. One of the speed boats has two launching tubes and the other four, ranging in size from 150 to 200 t and in speed from 35 to 40 nautical miles per hour. These speed boats are capable of attacking more remote and stronger targets than the larger missile-equipped military ships. Orig. art. has: 2 figures.

SUB CODE: 16,13,15,19/ SUBM DATE: none

*ns*  
Card 2/2

KUSTIN, E. A.

Maintenance of diesel tractor engines Moskva, Mashgiz, 1954. 86 p.  
Biblioteka mekhanizatora sel'skogo khozaiistva)

SOLIN, Vaclav; KUSTKA, Miroslav

Purification of waste waters containing trinitrotoluene by means of  
ash filters. Sbor.pal.vod. VSGnT 1958:247-257. (EKA 9:4)

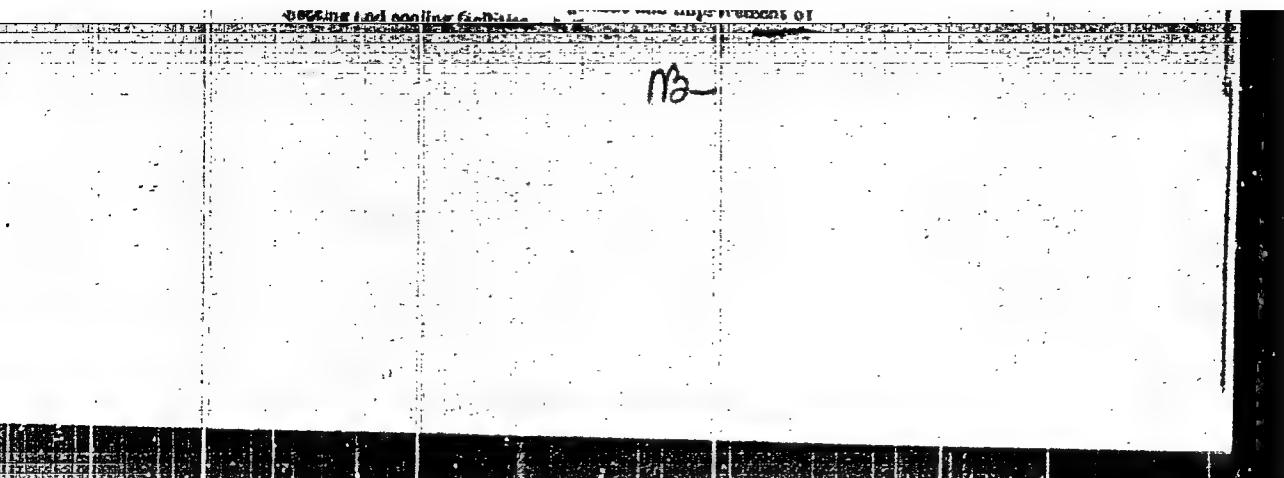
I. Katedra technologie vody, Vysoka skola chemicko-technologicka,  
Praha.

(Trinitrotoluene) (Filters and filtration) (Water) (Ash)

6  
14  
4E2U

Increased Productivity of No. 8 Blooming Mill, V. P.  
Kazanavikuz, M. M. Lekina, V. V. Kuznetsov, V. V. Kuznetsov  
and V. V. Shchelkin (SofP, 1957, (1), 47-53). In Russia,  
Stock No. 1140 the productivity of the 1180 No. 8 blooming mill  
at Kama (Kama) has increased by 88.5%, with a fall in rolling-  
defect rejects from 0.30 to 0.13% and a halving of the idle  
time. In this article the measures leading to the improve-  
ments are discussed. Mainly the provision of two additional  
stands in front of the main

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927910006-7"

137-58-6-12155

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 140 (USSR)

AUTHORS: Benyakovskiy, M.A., Shadrin, V.A., Kulikov, V.I.,  
Uzivenko, A.M., Kustobayev, G.G., Kochnev, M.F.,  
Kutayev, Ya.S.

TITLE: The Interrelation of the Pressure, the Pull and the Thickness  
of a Strip Subjected to Cold Rolling (Vzaimosvyaz' davleniya,  
nalyazheniya i tolshchiny lenty pri kholodnoy prokatke)

PERIODICAL: Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chernykh  
metallov, 1957, Nr 3, pp 114-123

ABSTRACT: A three stand rolling mill of the MMK was employed during  
research concerned with the effect of rolling (R) rate on the  
thickness of a strip (S), the establishment of interrelation of  
pressure and pull during cold R, and determination of the sig-  
nificance of longitudinal and transverse thickness variations in  
the S. A mathematical relationship is established between the  
basic parameters of the technological process of cold R of a S.  
It is established that variations in the tension of the strip mid-  
way between the stands of a mill have a decisive effect on the  
formation and magnitude of thickness variations in the S.

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137-5b-e-12155

The Interrelation of the Pressure, the Pull, and the Thickness of a Strip (cont.)

Fluctuations of R rate at the MMK have practically no effect on the thickness of the S. Variations in the pull produce thickness variations in the S equivalent to 0.01-0.02 mm on the average.

S.N.

Card 2/2

KOZHEVNIKOV, V.P., inzhener; UZIYENKO, A.M., inzhener; KUSTOBAYEV, G.G.,  
inzhener; SAVEL'YEV, G.V., inzhener; SKACHKO, F.P., inzhener.

Increasing the productivity of a No. 2 blooming mill. Stal' 17  
no.1:47-52 Ja '57. (MIRA 10:3)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Rolling mills)

BENYAKOVSKIY, M.A.; KULIKOV, V.I.; SHADRIN, V.A.; KOLPAKOV, I.P.; KUTUYEV,  
Ya.S.; KUSTOBATEV, G.G.; KOCHNEV, M.P.; YESIPOV, I.V.; PETROV, B.I.

Power consumption for the deformation of metal and conditions of  
strip rollings. Stal' 17 no.1:59-63 Ja '57. (MLRA 10:3)

1. Ural'skiy institut chernykh metallov i Magnitogorskiy metallur-  
gicheskiy kombinat.

(Rolling (Metalwork))

TARNOVSKII, I.Ya.; ODINOKOV, Yu.I.; KUSTOBAYEV, G.G.; SYCHKOV, B.D.

Rolling 7 to 9-ton ingots by the semidouble method on the  
1150 slabbing mill. Metallurg 6 no.11:20-22 N '61.

(MIRA 14:11)

1. Ural'skiy politekhnicheskiy institut, Institut chernykh  
metallov i Magnitogorskiy metallurgicheskiy kombinat.  
(Rolling(Metalwork))

VORONOV, F.D., prof.; SELIVANOV, N.M., kand.tekhn.nauk; RABINOVICH, Ye.I.,  
kand.tekhn.nauk; UZIENKO, A.M., inzh.; TKACHENKO, I.A., inzh.;  
KUSTOBAYEV, G.G., inzh.; IVANOVA, N.G., inzh.; RYABCHIKOV, F.D., inzh.;  
GRUZNOV, A.K., inzh.

Developing a technology for the casting and quality investigation  
of 21-ton rimmed steel ingots. Stal' 22 no.8:709-713 Ag '62.

(MIRA 15:7)

(Steel ingots)

VORONOV, F.D., prof.; MOROZOV, A.N., prof., doktor tekhn.nauk;  
SELIVANOV, N.M., kand.tekhn.nauk; SMIRNOV, Yu.D., kand.tekhn.nauk;  
RABINOVICH, Ye.I., kand.tekhn.nauk; CHERNOV, G.I., inzh.;  
TKACHENKO, I.A., inzh.; BIKTAGIRCV, K.K., inzh.; FILIPPOV, V.M.,  
inzh.; KUSTOBAYEV, G.G., inzh.

Making St. 3ps capped steel in Magnitogorsk Metallurgical  
Combine open-hearth furnaces. Stal' 22 no.8:716-718 Ag '62.

(MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat i Chelyabinskii  
nauchno-issledovatel'skiy institut metallurgii.  
(Magnitogorsk—Open-hearth process)

TARNOVSKIY, I.Ya.; ANTONOV, S.P.; ODINOKOV, Yu.I.; KUSTOBAYEV, G.S.;  
SYCHKOV, B.D.

Ingot rolling in the 1150 slabbing mill. Stal' 22 no.8:720-727  
Ag '62. (MIRA 15:7)

1. Ural'skiy politekhnicheskiy institut, Ural'skiy institut  
chernykh metallov i Magnitogorskiy metallurgicheskiy kombinat.  
(Rolling (Metalwork))

ANTONOV, S.P., inzh.; BOYARSHINOV, M.I., prof.; UZIYENKO, A.M., inzh.;  
KUSTOBAYEV, G.G., inzh.; RABINOVICH, Ye.I., kand.tekhn.nauk;  
RYABCHIKOV, F.D., inzh.

Improving the quality of rolled metal surfaces made of large  
ingots. Stal' 22 no.8:728-732 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy  
gornometallurgicheskiy institut.

(Steel ingots)  
(Rolling (Metalwork)--Quality control)

UZIYENKO, A.M.; KUSTOBAYEV, G.G.; DUKHIN, I.S.; SMIRNOV, B.I.; GRISHKO, A.G.;  
GONCHAROVA, R.Ya.

Research at the Magnitogorsk Metallurgical Combine. Stal' 22  
no.8:742-743 Apr '62. (MIRA 15:7)  
(Roller mills—Equipment and supplies)

RYABCHIKOV, F.D., inzh.; KUSTOBAYEV, G.G., inzh.; SOKOLOV, V.A., inzh.;  
KHISAMOV, F.N., inzh.

Accelerating the cooling of sheet steel in bell furnaces.  
Stal' 22 no.8:748-749 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Furnaces, Heat-treating)

KARPOV, A.A., inzh.; KUSTOBAYEV, G.G., inzh.; LAUSHKIN, N.P., inzh.;  
LANGE, Z.I., inzh.; NOSYREVA, M.D., inzh.; SAVEL'EV, G.V., inzh.;  
SHCHULEPNIKOV, I.S., inzh.; Prinimali uchastiye: SYCHKOV, B.A., inzh.;  
MILIKHIN, A.Ye., inzh.; ZAYTSEV, R.A., inzh.; ZARZHITSKIY, Yu.A.,  
inzh.; LEONT'YEV, A.I., inzh.; VIKTOROVA, T.Ye., inzh.; SERIKOV, A.A.,  
inzh.

Operation of recuperator soaking pits in the 1150 MM rolling  
mill. Stal' 22 no.8:753-758 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Furnaces, Heating) (Rolling mills)

L 57523-65 EWT(d)/EWT(e)/EWA(d)/EWP(v)/EWP(k)/EWP(b)/EWP(t)/EWP(b)/EWP(1)/  
EWA(c) Pf-4 JD/BW  
ACCESSION NR: AR5013007

4  
UR/0137/65/000/000/0009/0010  
621.771.001

SOURCE: Ref. zh. Metallurgiya, Abs. 4D60

AUTHOR: Tarnovskiy, I. Ya.; Odinokov, Yu. I.; Antonov, S. P.; Ponedeyev, A. A.;  
Ulyanenko, A. M.; Kustebayev, G. G.; Chichigin, V. A.; Ryabchikov, F. D.; Sychkov,  
b. u.

TITLE: Conditions for rolling large ingots on a slab mill

CITED SOURCE: Tr. Ural'skogo n.-i. in-ta chern. met., v. 3, 1964, 187-191

TOPIC TAGS: metal rolling, slab mill, rolling mill

TRANSLATION: The 1150 slab mill for rolling heavy UMS-217 ingots was studied. It was found that the degree of reduction could be increased while the number of passes was reduced. Optimally stable conditions for rolling heavy ingots in 23-25 passes were developed and introduced into industry. It was found that the most difficult conditions (rolling in 21 passes) leave a reserve for holding conditions. Further improvement is limited by the power of stand motors and strength of stand

Card 1/2

L 57523-65

ACCESSION NR: AR5013007

parts. It was found that motors with vertical rolls with a power of 4000-4500 kw may be installed on new mills. This will make rolling without side passes possible with intense compression of the side edges of slabs in the vertical rolls and will improve the quality of the rolled product. The investigations have not exhausted the possibilities of the 1150 mill. N. Yudina.

SUB CODE: 1G, MM

ENCL: 00

Card 2/2

I, E, E, E, E	EWP(m)/EWP(t)/T/EPI/EWP(r)	IMP(c)	JB/HW
ACC NR:	AP6029871	SOURCE CODE: UR/0413/66/000/015/0022/0022	
INVENTOR: <u>Voronov, F. D.</u> ; <u>Filatov, A. D.</u> ; <u>Gun, S. B.</u> ; <u>Selivanov, N. M.</u> ; <u>Nosov, V. D.</u> ; <u>Savel'yev, G. V.</u> ; <u>Goncharov, F. I.</u> ; <u>Plotnikov, P. I.</u> ; <u>Roshkov, S. A.</u> ; <u>Kustobayev, G. G.</u> ; <u>Polushkin, V. P.</u> ; <u>Arkhipov, V. M.</u> ; <u>Uziyenko, A. M.</u> ; <u>Kolov, M. I.</u> ; <u>Kozhevnikov, V. P.</u> ; <u>Shapiro, B. S.</u> ; <u>Kalugin, V. F.</u> ; <u>Grudev, P. I.</u> ; <u>Aksenov, B. N.</u> ; <u>Khomyachkov, A. P.</u> ; <u>Rudakov, Ye. A.</u> ; <u>Kuzemn, I. D.</u> ; <u>Gomzhin, V. V.</u> ; <u>Poydyshev, B. N.</u> ; <u>Shternov, M. M.</u>			
ORG:	none	58	B
TITLE: Method of making <u>high-strength steel plates</u> by <u>pack rolling</u> . Class 7, No. 184232			
SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22			
TOPIC TAGS: high strength steel, high strength steel plate, high strength steel sheet, steel plate rolling, steel sheet rolling			
ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength steel plates and sheets up to 10 mm thick and up to 3500 mm wide in a carbon steel envelope. The method includes <u>cleaning</u> , <u>coating</u> , <u>making of the pack</u> , <u>heating</u> , <u>rolling</u> and <u>subsequent heat treatment</u> . To ensure an accurate thickness of the plates			
Card 1/2	UDC: 621.771.23		

L 44005-66

ACC NR: AP6029871

or sheets regardless of their location in the pack, the thickness of the envelope must be at least 0.6 of the total initial thickness of the high-strength plates of the pack.

[ND]

SUB CODE: 13/ SUBM DATE: 18Jun64/ ATD PRESS: 5070

Card 2/2 blg

25651  
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D203/D305

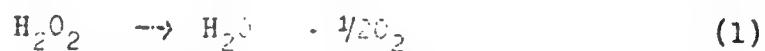
H-1310

AUTHORS: Mishchenko, K.P., File, I.Ye., and Kustodina, V.A.

TITLE: Thermodynamic characteristics of aqueous hydrogen peroxide and its reactions with chlorine at different temperatures

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 12, 1960,  
2671 - 2675

TEXT: Due to the absence of thermodynamic data for the hydrogen peroxide solution for a wide temperature range the authors studied the reaction



at temperatures of 5°C, 10°C, 25°C and 35°C to provide the necessary information. Calorimetric experiments were conducted using a Vrevskiy calorimeter [Abstractor's note: No information given]. Into this, 300 ml. of a  $\text{H}_2\text{O}_2$  solution, containing 0.048 mol  $\text{H}_2\text{O}_2/1$  Card 1/5

25051

S.082 / 60/033/012/005/024

D203/D305

Thermodynamic characteristics of ...

(determined by the permanganate method) and an ampoule containing analytically pure  $MnO_2$  were introduced. On reaching a thermal equilibrium the ampoule was broken and  $MnO_2$  liberated caused the decomposition of the  $H_2O_2$ . From the temperature changes, the quantity of heat liberated and hence  $\Delta H$  were determined for the above mentioned temperatures. The results obtained showed that the  $\Delta H$  of reaction (1) changes negligibly with the temperature. Tables 2 - 6 give the thermodynamic characteristics of reactions 1, 6, 8, 13, and 16. There are 6 tables and 15 references: 10 Soviet-bloc and, 5 non-Soviet-bloc. The reference to the English-language publication reads as follows: G.L. Matheson, O. Maass, J. Am. Chem. Soc. 51, 674, 1929. X

SUBMITTED: July 9, 1960

Card 2/5

KUSTODINA, V.A.; MISHCHENKO, K.P.; FLIS, I.Ye.

Thermodynamic characteristics of the interaction between chlorine monoxide and sodium hydroxide. Zhur. prikl. khim. 34 no.1:125-129  
Ja '61. (MIRA 14:1)  
(Chlorine oxide) (Sodium hydroxide)

FLIS, I.Ye.; MISCHENKO, K.P.; KUSTODINA, V.A.

Thermodynamic characteristics of the reaction between chlorine monoxide and hydrogen peroxide in an alkaline medium. Zhur. prikl. khim. 34 no.2:306-311 F '61. (MIRA 14:2)  
(Chlorine oxide) (Hydrogen peroxide)

KUSTODINA, V.A.; MISHCHENKO, K.P.; FLIS, I.Ye.

Thermodynamics of formation of chlorine monoxide in carbon  
tetrachloride. Zhur.prikl.khim. 35 no.6:1374-1376 Je '62.  
(MIRA 15:7)  
(Chlorine oxides) (Carbon tetrachloride)  
(Heat of formation)

KARISHIN, A.P.; KUSTOL, D.M.

Condensation of haloacenaphthenequinones with inodoxyl. Ukr.khim.  
zhur. 22 no.2:229-231 '56. (MLRA 9:8)

1. Poltavskiy gosudarstvennyy pedagogicheskiy institut.  
(Indoxyl) (Acenaphthenequinone)

AUTHORS: Karishin, A. P., Kustol, D. M. 79-28-3-29/61

TITLE: On the Problem of the Synthesis of Naphthalimide and its Derivatives (K voprosu o sinteze naftal'imida i yego proizvodnykh)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3, pp. 692-695 (USSR)

ABSTRACT: According to the authors' opinion an incorrect conception prevails in publications on the conditions of the reaction of naphthalimide and its derivatives to the corresponding imides. It was found that the anhydride of naphthalic acid and its monohalide- and mononitroderivatives can be converted to the corresponding imides by means of 15-16 % ammonia solution at 60-90°C in the course of 30 minutes, the yield being 98 %. This reaction mainly proceeds passing through the ammonium salt of the monoamide of naphthalic acid according to the mentioned scheme. This ammonium salt is formed energetically already at 50-60°C, it is easily soluble in water but is very unstable, and almost completely converts to naphthalimide (97 %). When this salt solution

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On the Problem of the Synthesis of Naphthalimide and its Derivatives 79-28 3-29/61

is acidified the monoamide of the naphthalic acid is precipitated as precipitate, which in boiling with water or in drying converts to naphthalanhydride (96 %) and to naphthalimide (4 %). The potassium salt of the monoamide of naphthalic acid could be separated in free state. This proves the above mentioned opinion that in the ammonium salt solution of the monoamide of naphthalic acid the naphthalimide is formed as a side product in the reaction process. When naphthalic acid is used for the synthesis of naphthalimide its ammonium salt is formed in the reaction with aqueous ammonia, which converts to the naphthalimide only with a yield of 70 % in boiling the solution for six hours; this points to a preferred use of the anhydride and of a lower temperature. The anhydride of dihaloidnaphthalic acids convert more difficultly to the imides.

There are 11 references, 6 of which are Soviet

Card 2/3

On the Problem of the Synthesis of Naphthalimide and  
its Derivatives 79-26 3-29/61

ASSOCIATION: Poltavskiy gosudarstvennyy pedagogicheskiy institut  
(Poltava State Pedagogic Institute)

SUBMITTED: July 9, 1957

Card 3/3

5(3)

AUTHORS: Karishin, A. P., Kustol, D. M.

SOV/79-29-6-34/72

TITLE: Synthesis of the 1,1'-Dinaphthyl-8,8'-dicarboxylic Acid From Naphthalimide (Sintez 1,1'-dinaftil-8,8'-dikarbonovoy kisloty iz naftalimida)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 6,  
pp 1928 - 1930 (USSR)

ABSTRACT: In industry 1,1'-dinaphthyl-8,8'-dicarboxylic acid is frequently used for the synthesis of the anthanthrone dyes. It is known from publications (Ref 1) that 1-naphthyl amine-8-sulfo acid is used as initial product for their industrial synthesis. In order to transform this acid into the 1,1'-dinaphthyl-8,8'-dicarboxylic acid a series of complicated operations has to be performed. This acid may be obtained by a much simpler method from naphthalimide which is an easily accessible product (Ref 2). The method of the conversion of naphthalimide into the lactam of the 1-amino-8-naphthoic acid (naphthostyryl) with a yield of 56.5% as well as also the conversion of the latter into 1,1'-dinaphthyl-8,8'-dicarboxylic acid (38.5% yield) are described in publications (Ref 3). The authors elaborated the methods of

Card 1/2

Synthesis of the 1,1'-Dinaphthyl-8,8'-dicarboxylic Acid Sov/79-29-6-34/72  
From Naphthalimide

converting naphthalimide into 1,1'-dinaphthyl-8,8'-dicarboxylic acid, viz without preceding separation of the lactam of 1-amino-8-naphthoic acid (72% yield). It was found that the lactam of the 1-amino-8-naphthoic acid may be obtained by the action of gaseous chlorine on the alkaline solution of naphthalimide at 15-17° with a yield of 86.2%. There are 4 references, 3 of which are Soviet.

ASSOCIATION: Poltavskiy gosudarstvennyy pedagogicheskiy institut (Poltava State Pedagogical Institute)

SUBMITTED: February 3, 1958

Card 2/2

5 (3)

AUTHORS:

Karishin, A. P., Kustol, D. M.

SOV/79-20-7-29/83

TITLE:

Condensation of the Halogen Naphthalic Acid Anhydrides With Resorcin (Kondensatsiya galoidnaftalevykh angidridov s rezortsinom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2241 - 2243  
(USSR)

ABSTRACT:

The halogen naphthalene fluoresceins (VIII) and (II) described in references 1 and 2 of which no melting points are given, and the bromine- and iodine derivatives of 5'-chloro- and 5'-bromonaphthalene fluoresceins, the constants of which are not given, may be obtained with optimum yields if the condensation with resorcin at 180-185° is carried out in the presence of anhydrous tin chloride within 30-40 min. Under these conditions the yield in halogen naphthalene fluoresceins is 70-74%, computed for the anhydride consumed in the reaction (35-40%). At higher temperatures up to 200-210° a higher amount of anhydrides enters the reaction. In this case, however, the yield in fluoresceins is reduced, since a large number of resins is formed. The formation of resins brings about a higher consumption of tin chloride. In the bromination and

Card 1/2

Condensation of the Halogen Naphthalic Acid Anhydrides SCV/70-29-7-29/83  
With Resorcin

Iodination of the halogen naphthalene fluoresceins obtained tetrabromine- and tetraiodine derivatives of the type of eosin and erythrosine are easily formed. The absorption maxima of the sodium salts of these dyes are, in comparison with eosin and erythrosine, shifted into the long-wave spectral range. The absorption maxima were determined in the laboratory of Khar'kov University by B. M. Krasovitskiy, to whom the authors express their thanks. The following compounds were newly synthesized: 5'-bromonaphthalene fluorescein, 5'-chloro-2,4,5,7-tetrabromofluorescein, 5'-bromo-2,4,5,7-tetrabromo fluorescein, 2,4,5,7-tetraiodofluorescein, 5'-chloro-2,4,5,7-tetraiodo- and 5'-bromo-2,4,5,7-tetraiodonaphthalene fluorescein and their corresponding sodium salts. There are 1 table and 4 references, 1 of which is Soviet.

ASSOCIATION: Poltavskiy gosudarstvennyy pedagogicheskiy institut (Poltava State Pedagogical Institute)

SUBMITTED: June 21, 1958  
Card 2/2

5(3)

AUTHOR: Karishin, A. P., Kustol, D. M. SOV/79-29-8-67/81

TITLE: On Some Nitro- and Amino Derivatives of 4,5-Dichloroacenaphthene

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2745-2747 (USSR)

ABSTRACT: The nitration of 4,5-dichloroacenaphthene (I) was investigated by G. T. Morgan and H. A. Harrison (Ref 1) who synthesized dichlorodinitroacenaphthene (melting point 200°) in the course of this process. They, however, did not detect the structure of this compound; indications as to the yield are also missing. The authors found that by the nitration of 4,5-dichloroacenaphthene (I) according to the instructions given by Morgan and Harrison dichlorodinitroacenaphthene (II) with a melting point of 251 - 252° and a yield of 45 - 50% is obtained. Further experiments made it possible to increase the yield of (II) up to 72%. The produced dichlorodinitroacenaphthene (II) was consequently transformed into dichlorodiaminoacenaphthene (III), tetrachloroacenaphthene (IV), and in tetrachloronaphthalic acid (V) in that order. By the oxidation of this acid (V) only 4,6-dichlorohemimellitic acid (VI) is obtained which has already been

Card 1/2

On Some Nitro- and Amino Derivatives of  
4,5-Dichloroacenaphthene

SOV/79-29-8-67/81

described in publications (Refs 2, 3) (Scheme). Thus the structure of all recently synthesized compounds was determined. Furthermore, the imide of tetrachloronaphthalic acid was obtained. There are 3 references, 1 of which is Soviet.

ASSOCIATION: Poltavskiy gosudarstvennyy pedagogicheskiy institut  
(Poltava State Pedagogical Institute)

SUBMITTED: July 7, 1958

Card 2/2

KARISHIN, A.P.; KUSTOL, D.M.

Synthesis of 4-halo derivatives of a lactam of 1-amino-8-naphthoic acid (4-halonaphthostyryles) based on acenaphthene. Zhur. ob. khim. 31 no.5:1655-1660 My '61. (MIRA 34:5)

1. Poltavskiy gosudarstvennyy pedagogicheskiy institut.  
(Naphthoic acid)

KARISHIN, A.P.; KUSTOL, D.M.

Condensation of 5-fluoroacenaphthenequinone with  
3-oxythionaphthene and its derivatives. Zhur. ob. khim.  
32 no.10:3142-3143 0 '62. (MIRA 15:11)

1. Poltavskiy gosudarstvennyy pedagogicheskiy institut.  
(Naphthalenone) (Naphthalenes)

KARISHIN, A. P.; KUSTOL, D. M.

Condensation of 5-iodoacenaphthenequinone with 3-hydroxy-thienaphthene and its derivatives. Zhur. ob. khim. 33 no.1: 203-204 '63. (MIRA 16:1)

1. Poltavskiy gosudarstvennyy pedagogicheskiy institut.

(Acenaphthenequinone) (Benzothiophene)

KARISHIN, A.P.; KUSTOL, D.M.

Synthesis of 5-chloro-6-iodoacenaphthene and products of its  
oxidation. Zhur. ob. khim. 34 no. 3:924-926 Mr '64.  
(MIRA 17:6)

1. Poltavskiy gosudarstvennyy pedagogicheskiy institut.

KARISHIN, A.P.; KUSTOL, D.M.

Synthesis of 5,6-diiodoacenaphthene and its oxidation products.  
Zhur. ob. khim. 34 no. 3:1001-1004 Mr '64 (MIR 17:6)

1. Poltavskiy gosudarstvennyy pedagogicheskij institut.

Б. А. Абрамов, д.х.

Compensation of 5-chloro-6-fluoracetophenone naphthone with  
3-hydroxy-4-naphthone and its derivatives. Thir. ob. Khim.  
34 no.9:3067-3068 S '67.

(MIRA 17:11)

С.-Петербургский педагогический институт.

BARTOS, Gabor, dr.; SZOLLOSSY, Laszlo, dr.; TOROK, Bela, dr.; KUSTOS, Gyula, dr. ; KARMOS, Viktor.

On practical problems of plastic materials used in vascular prosthesis. Magy. sebeszr. 17 no.31340-146 Je'64.

1. Pecs Orvostudomanyi Egyetem Sebeszeti Anatomiai es Mutettani Intezete (Igazgato: Prof. Karlinger, Tihanyi, dr.)

SZOLLÓSSY, L. dr.; TOROK, B., dr.; KÉTT, K., dr; KUSTOS, GY., dr.

New artificial aortic valve for the surgical treatment of aortic insufficiency (preliminary report). Orv. hetil. 101 no. 26:917-918 26 Je '60.

1. Pécsi Orvostudományi Egyetem, Sebészeti Anatómiai és Mutattani Intézet.  
(AORTIC VALVE surg.)

BARTOS, Gabor, dr.; KARMOS, Viktor; SZOLLOSSY, Laszlo, dr.; TOROK Bela, dr.;  
KUSTOS Gyula; CZIGLER, Jero

Hungarian-made plastic vascular prostheses. Orv.hetil. 101 no.41:  
1458-1459 9 0 '60.  
(ARTERIES surg)  
(PLASTICS)

BARTOSH, Gabor [Bartos, Gábor]; SELESHI, Laslo [Szölösi, László]; KARMOSH,  
Viktor [Karmos, Viktor]; TEREK, Bela [Török, Béla]; KUSHTOSH, Dzula  
[Kustos, Dzula]

Experiences in replacing defects of the blood vessels with prostheses  
of combined auto-alloplastic and porous alloplastic material. Vest.  
khir. no.7:10-14 '61.  
(MIRA 15:1)

1. Iz kafedry khirurgicheskoy anatomii i operativnoy khirurgii  
(dir. - prof. T. Karlinger) Pechskogo meditsinskogo instituta  
(Vengriya).

(BLOOD VESSELS—SURGERY)

TOTH, I.; BOHENSZKY, Gy.; SZOLLOSSY, L.; KUSTOS, Gy.; PAP, J.; PINTER, A.

On experimental aortic insufficiency. Acta chir. acad. sci. hung. 3  
no.4:383-391 '62.

1. Institut fur Chirurgische Anatomie und Operationslehre (Direktor:  
Prof. Dr. T. Karlinger) der Medizinischen Universitat, Pecs.  
(AORTIC DISEASES) (HEART FUNCTION TESTS)

HUNGARY

TOROK, Bela; SZOLLOSSY, Laszlo; BILISUS, Gyula; BARTOS, Gabor; TOTH, Imre; PAP, Janos; Institute of Surgical Anatomy and Operative Techniques of the Medical University (Orvostudomanyi Egyetem Sebészeti Anatomiia és Műtőtani Intézet), Pecs.

"Experimental Production of Septum Defects."

Budapest, Kísérletes Orvostudomány, Vol 14, No 5, Oct 62,  
pp 532-534.

Abstract: [Authors' German summary] An experimental surgical procedure is described for the production of auricular and ventricular septum defects. [One Hungarian reference.]

REVIEW

BOHENSZKY, Gyorgy, Dr, FOKOR, Zsuzsa, M., KUNORI, Gyula, Dr, K.L.D.,  
Kornelia, Dr; Medical University of Pecs, T. Neffical Clinic (Pecsi  
Orvostudoranyi Egyetem, I. Belklinika).

"The Significance of Phonocardiogram Obtained from a Lead Through  
the Esophagus."

Budapest, Urologia, Vol 10, No 15, 5 May 63, pages 829-831.

Abstract: [Authors' Hungarian summary] The authors discuss the per-  
formance of the Bohenszky-Edelenyi esophageal microphone probe. The  
sound effects obtained from the dorsal surface of the heart are valu-  
able in the diagnosis of mitral abnormalities. 5 Western, 3 Eastern  
European references.

1/1

KUSZCZAK, Gy., dr.; KUDAROV, Gy., Dr.; TEGOLY, Bo., Dr.; VELI, J., Dr.;  
TOMA, I., Dr.; ZALAI, Z.

Multiple cycles in step. Very arbitrary. Up to no. 5200-206  
by '64

1. Institute of Anatomy and Surgery (Director: Univ. prof.  
Dr. Thomas Karringer), Medical University.

BARTOS, G.; KARMOS, V.; SZOLLOSSY, L.; KUSTOS, Gy.; TOROK, E.; TOTH, I.;  
TEMES, Gy.

Problems of alloplastic vascular repair. I. Structure of vascular  
prostheses. Acta chir. acadi sci. Hung. 6 no.2:109-117 '65.

1. Institute of Surgical Anatomy and Experimental Surgery (Dirac-  
tor: Prof. T. Karlinger), University Medical School, Pecs.

BARTOS, G.; KAIMOS, V.; SZOLLOSSY, L.; KUSTOS, Gy.; TOROK, B.; TOTH, I.;  
PAP, J.

Problems of alloplastic vascular repair. II. Porosity of synthetic  
vascular prostheses. Acta chir. acad. sci. Hung. 6 no.2:117-127 '65.

1. Institute of Surgical Anatomy and Experimental Surgery (Director:  
Prof. T. Karlinger), University Medical School, Pecs.

TCRÖK, B.; TEMES, G.; TOTH, I.; PÁL, J.; KÜSTÖS, G.; RÁMUS, G.

Attempts at the improvement of cardiac blood supply. Acta chir. acad. sci. Hung. 6 no.3:325-332 '65.

1. Institute of Surgical Anatomy and Surgery (Director: Prof. T. Karlinger) University Medical School, Pécs. Submitted November 20, 1964.

CARDIOVASCULAR DISEASES

NOTES

KUSTOS, Gyula, IMRE, Janos, TOROK, Bela, TULI, Jeno, BARTOS, Gabor and LIMES, Gyula, Institute of Surgical Anatomy and Surgical Technique (Societas Anatomiae et Histologicae Hungaricae), College of Medicine (Orvostudomanyi Egyetem), Pecs.

"ECG, PCG and Electromanometric Studies in Experimental Mitral Insufficiency"

Budapest, Kisérleti Orvostudomány, Vol 10, No 6, 1966; pp 663-668.

Abstract: On the basis of animal experiments the ECG changes developing in acute mitral insufficiency are described. On the basis of phonocardiographic and electromanometric data three groups may be distinguished: mild, moderately severe and severe. The data obtained in the three syndromes are characteristic, and occasionally the changes may be expressed also by means of formulas. 29 references, mainly Western. Manuscript received 28 Jan 66.

KUSTOV, A.

Supremacy of the Soviet Union in rifle shooting. Voen. znan. 34  
no.8:27-28 Ag '58. (MIRA 11:12)

1. Chlen Prezidiuma TSentral'nogo komiteta Dobrovol'nogo obshchestva  
sodeystvija armii, aviacii i flotu SSSR.  
(Shooting)

KUSTOV, A.

Technical commissions for fire prevention in workshops. Pozh.  
delo 7 no.4:12 Ap '61. (MIRA 14:4)

1. Nachal'nik karaula pozharnoy chasti Orsko-Khalilovskogo  
metallurgicheskogo kombinata.  
(Chkalov Province—Metallurgical plants—Fires and fire prevention)

KUSTOV, A. (st. Chishmy, Bashkirskoy ASSR)

Feedback control. Radio no. 7:45 J1 '62. (MIRA 16:6)

(Transistor radios)

KUSTOV, A.A., kand. tekhn. nauk, dots.

Effect of radial pulsation of gear cutters on tooth profile  
distortions while generating gears. Sbor. st. LITMO no.23:101-104  
'57. (MIRA 11:5)  
(Gear cutting)

KUSTOV, A.A.

Copy attachment with a rotating copying device for screw cutting lathes. Izv.vys.ucheb.zav.; prib. 3 no.2:114-115 '60.

(MIRA 14:4)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy tekhnologii priborostroyeniya.  
(Lathes—Numerical control)

S/123/61/000/013/009/025  
A052/A101

AUTHOR: Kustov, A. A.

TITLE: Plotting graphical technological plan for the turret lathe

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1961, 50, abstract  
13B317 (Sb. nauchn. tr. Leningr. in-t tochnoy mechan. i optiki",  
1960, no. 41, 152-171)

TEXT: It is pointed out, that turret lathes are designed for machining parts of a complex configuration from rolled, cast and other material, whereby the precision of diameter dimensions can be of the third class and that in the length of the fourth class. The economy of machining on turret lathes depends on the correct selection of the technological plan, which to a great extent is facilitated by plotting a graphical plan of machining; for this purpose a system of conventional symbols is proposed. Generally known principles on the methods of the changeover superposition are reported and suggestions on the rational succession of operations are made. Specific features of the work on turret lathes with horizontal and vertical turret heads are pointed out. Installation dimensions of turret heads of some home and foreign turret lathes and

Card 1/2

Plotting graphical technological plan ...

S/123/61/000/013/009/025  
A052/A101

drafts of the mostly used holders are given. A comparative diagram, worked out by S. P. Mitrofancy, of machining time on lathes and turret lathes for various sizes of series is given. There are 10 figures, 2 tables and 5 references.

V. Genin

[Abstracter's note: Complete translation]

Card 2/2

9/123/61/000/015/022/032  
A004/A101

AUTHOR: Kustov, A. A.

TITLE: Thread-copying device for lathes

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 42, abstract  
15B271 ("Sb. nauchn. tr. Leningr. in-t technoy mekhan. i optiki",  
1960, no. 41, 172-175)

TEXT: The author describes the design of a thread-cutting device for non-threading lathes. The device is mounted on a plate replacing the lateral cover of the gear box and fixed to its front wall. An interchangeable threading drum (copying device) is fixed on the lathe spindle. In this case machining is possible either in a collet chuck or on a mandrel. If a 3-jaw chuck is used, the drum should be mounted on the elongated hub of the chuck face plate. Male and female threads can be produced with this device. If an interchangeable multiple-thread threading drum is used, the indexing of the blank according to the threads is carried out automatically, owing to which all threads are cut successively over one depth, after which a new radial feed of the tool is effected. There are 2 figures.

[Abstracter's note: Complete translation]

M. Degtyareva

Card 1/1

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9,4310 (and 1160, 1150, 1143)

S/146/61/004/001/015/016  
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TITLE: Effect of thermal equilibrium in the cutting zone on the purity of the treated surface

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 4, no. 1, 1961, 121-124

TEXT: The author studied the effect of automatically controlled temperature in the cutting zone of a turning tool on the surface qualities of treated parts. Fig. 1 shows a diagram of the experimental arrangement used. First, it was found that for safeguarding a good surface quality the cutting site had to be heated and the cutting edge of the turning tool had to be dulled. This produces more heat at the cutting site due to increased deformation work and prolonged contact time of the cutting edge with the work. The author checked this assumption by comparing the cutting results obtained with a sharp turning tool with those obtained with a dull one. The tabulated results show that the surface quality of a work is not much improved by heating the cutting site when using a sharp turning tool.

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With a dulled turning tool, however, the heating of the cutting site is well noticeable. Similar tests with an undercooled tool (cooled by a CO<sub>2</sub> jet of -70°C) showed a considerable deterioration of the surface qualities. This clearly proves that an increase in temperature of the cutting site without increase in the cutting speed yields a considerable improvement of the surface quality. The publication of this article was recommended by the Kafedra tekhnologii priborostroyeniya (Department of Technology of Instrument Construction). There are 2 figures, 2 tables, and 1 Soviet-bloc reference.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

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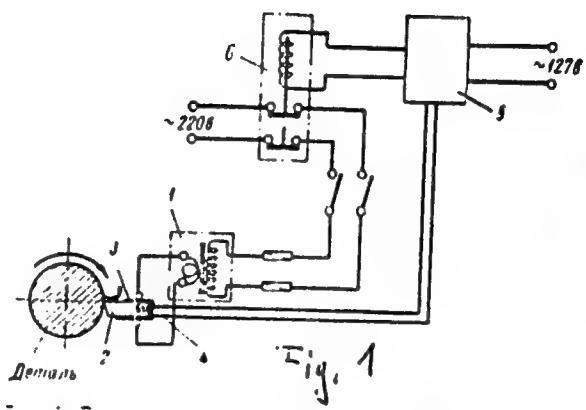
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Legend to Fig. 1: 1) Converter with a secondary voltage of 1.2 v at an amperage of up to 650 a, 2) hard-metal foil, 3) support made of transformer iron, 4) thermocouple, 5) automatic electronic potentiometer, 6) magnetic switch.



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Fig. 1

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Legend to Table 1: 1) Number of workpiece, 2) material, 3) treated section of the workpiece, 4) turning tool, 5) cutting conditions, a) in m/min; b) in mm/rev, c) in mm, 6) purity of surface, d)  $H_{\text{mean}}$  in  $\mu$ , e) quality class, 7) steel, 8) sharp, 9) dulled, 10) cold, 11) heated, 12) cooled.

Номер детали	Материал	Участок обработки	Режис	Условия резания			Чистота поверхности	Класс чистоты
				U м/мин	S мм/об	t мм		
69	Сталь 40Х	I	Острый	холодный	23,7	0,16	0,5	28,3
				нагретый	24,4	-	-	21,1
				остывший	24,6	-	-	25,9
14	Сталь 40Х	I	Прятушен	холодный	18,7	0,16	0,5	67,4
				нагретый	18,9	-	-	3,7
				остывший	19,0	-	-	64,8
Card 4/4 34	Сталь 40Х	II	Итуплен	холодный	22,4	0,16	0,5	45,8
				нагретый	23,2	-	-	7,8

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